

PILOT \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_

DATE \_\_\_\_\_

**Cessna 172K 6-Month Quiz**      Tail: \_\_\_\_\_

1. Date of current aircraft weight and balance computations \_\_\_\_\_
2. Aircraft empty weight: \_\_\_\_\_ lbs.
3. Maximum normal category takeoff gross weight: \_\_\_\_\_ lbs.  
Normal category Useful Load: \_\_\_\_\_ lbs.
4. Maximum utility category takeoff gross weight: \_\_\_\_\_ lbs.  
Utility category Useful Load: \_\_\_\_\_ lbs.
5. Full fuel usable quantity: \_\_\_\_\_ gal.
6. Maximum passenger and baggage weight with full fuel: \_\_\_\_\_ lbs.
7. Tire pressures are \_\_\_\_ psi for the nose tire and \_\_\_\_ for the main tires.
8. The engine in the aircraft is model \_\_\_\_\_ rated at \_\_\_\_\_ HP.
9. Minimum oil quantity is \_\_\_\_ qts. System oil capacity is \_\_\_\_ qts.  
For local training flights, oil would not be added above \_\_\_\_ qts.
10. How many fuel system drains should be sampled during preflight? \_\_\_\_\_  
Where are these fuel system drains located? \_\_\_\_\_.
11. What data applies for engine start, runup, taxi, and climb to 5,000' on a day 10°F above standard?  
\_\_\_\_ Gallons  
\_\_\_\_ Minutes  
\_\_\_\_ Nautical miles
12. Assume cruising at 5000' on a standard day at 61% BHP, the POH indicates:  
\_\_\_\_ RPM  
\_\_\_\_ KTAS  
\_\_\_\_ GPH
13. Assuming takeoff conditions in question 11 and cruise conditions in question 12, with full fuel and maximum passenger and baggage weight at takeoff, and allowing 10 gallons in the tanks at landing for reserve, the maximum range of the aircraft with a 20 knot headwind is \_\_\_\_\_ nautical miles.

14. What are the values (mph) for the following airspeeds?

- V<sub>so</sub> \_\_\_\_\_
- V<sub>s</sub> \_\_\_\_\_
- V<sub>x</sub> \_\_\_\_\_
- V<sub>y</sub> \_\_\_\_\_
- V<sub>a</sub> \_\_\_\_\_ (at 2,200 lbs)
- V<sub>no</sub> \_\_\_\_\_
- V<sub>ne</sub> \_\_\_\_\_
- Takeoff rotate \_\_\_\_\_
- Enroute climb \_\_\_\_\_
- Best glide \_\_\_\_\_ (at max gross weight)
- Go around \_\_\_\_\_ at Flaps \_\_\_\_\_°

15. What is the maximum airspeed at which Flap 10° can be extended? \_\_\_\_\_ mph.  
What is the maximum airspeed at which more than Flap 10° can be extended? \_\_\_\_\_ mph.

16. What is the correct flap position for a Normal Takeoff? \_\_\_\_\_°.  
What is the correct flap position for a Short Field Takeoff? \_\_\_\_\_°.  
What is the correct flap position for a Soft Field Takeoff? \_\_\_\_\_°.

17. What is the maximum entry speed for performance of a Steep Turn? \_\_\_\_\_ mph

18. What is the ground roll distance and the total distance required to clear a 50 foot obstacle on takeoff for the following conditions using the POH numbers: Runway 9; Pressure altitude 5000 feet; temperature 66°F; Wind 090 at 10 knots; maximum gross weight; hard runway?  
\_\_\_\_\_ ground roll \_\_\_\_\_ to clear 50 foot obstacle

19. What is the ground roll distance and distance required to clear a 50 foot obstacle when landing for the following conditions using the POH numbers: Runway 9; grass; Pressure altitude 5000 feet; temperature 41°F; Wind 090 at 5 knots; maximum gross weight?  
\_\_\_\_\_ ground roll \_\_\_\_\_ to clear 50 foot obstacle

20. Prior to take-off from fields above \_\_\_\_\_ feet elevation, the mixture should be leaned to give maximum RPM in a full-throttle, static runup.